FIG. **2** is a perspective view showing a closed state of the electronic apparatus shown in FIG. **1**;

FIG. **3** is a side view of the electronic apparatus shown in FIG. **1**;

FIG. **4** is a view showing an articulated coupling mechanism of the electronic apparatus shown in FIG. **2**;

FIG. **5** is an enlarged view of the articulated coupling mechanism shown in FIG. **2**;

FIG. **6** is an enlarged view of a gear mechanism of the articulated coupling mechanism;

FIG. **7** is a view for explaining an operation of the articulated coupling mechanism when a display portion is opened and closed;

FIG. **8** is an enlarged view of an interlock mechanism of an articulated coupling mechanism of an electronic apparatus of a second embodiment;

FIG. **9** is a perspective view of an electronic apparatus of a third embodiment;

FIG. **10** is a perspective view showing a closed state of an electronic apparatus of a fourth embodiment;

FIG. **11** is a perspective view showing an open state of an electronic apparatus of a fifth embodiment;

FIG. **12** is a view showing an example of a display screen of the electronic apparatus shown in FIG. **11**;

FIG. **13** is a view showing another example of the display screen of the electronic apparatus shown in FIG. **11**;

FIG. **14** is a view showing another example of the display screen of the electronic apparatus shown in FIG. **11**;

FIG. **15** is a view showing another example of the display screen of the electronic apparatus shown in FIG. **11**;

FIG. **16** is a view showing another example of the display screen of the electronic apparatus shown in FIG. **11**;

FIG. **17** is a perspective view showing a closed state of an electronic apparatus of a sixth embodiment;

FIG. **18** is a perspective view showing an open state of the electronic apparatus shown in FIG. **17**;

FIG. **19** is a view showing an example of a display screen of the electronic apparatus shown in FIG. **18**;

FIG. **20** is a view showing an example of the display screen of the electronic apparatus shown in FIG. **18**;

FIG. **21** is a view showing an example of the display screen of the electronic apparatus shown in FIG. **18**;

FIG. **22** is a view showing an example of the display screen of the electronic apparatus shown in FIG. **18**;

FIG. **23** is a view showing an example of the display screen of the electronic apparatus shown in FIG. **18**;

FIG. **24** is a view showing an example of the display screen of the electronic apparatus shown in FIG. **18**; and

FIG. **25** is a perspective view showing an open state of an electronic apparatus of a seventh embodiment.

DESCRIPTION OF PREFERRED EMBODIMENTS

Hereinafter, embodiments of the present invention will be described with reference to the drawings.

(Structure of Electronic Apparatus)

FIG. **1** is a perspective view showing an open state of an electronic apparatus according to an embodiment of the present invention, and FIG. **2** is a perspective view showing a closed state of the electronic apparatus.

As shown in those figures, an electronic apparatus **1** includes a display portion **2**, a main body portion **3**, and an articulated coupling mechanism **4** for coupling the display portion **2** and the main body portion **3** to each other. The main body portion **3** includes a frame member **5** that is coupled to the articulated coupling mechanism **4**. The display portion **2** is openable/closable (foldable) with respect to the main body portion **3** via the articulated coupling mechanism **4**.

The display portion **2** includes a display including a display screen **6** such as an LCD (Liquid Crystal Display), and a casing **7** for accommodating the display. The display is connected to a system board of the main body portion **3** via a flexible board **8**. The casing **7** has a size of 180 mm long and 260 mm wide, for example. A thickness of the display portion **2** is 3 mm, for example. The casing **7** of the display portion **2** is screwed to the articulated coupling mechanism **4** with screws **9** in the vicinity of both ends of the display portion **2** in a width direction (Y direction shown in FIG. **1**).

The main body portion **3** includes the system board, an optical disc drive, a hard disk drive, a cooling fan (that are not shown in the figures), a casing **10** for accommodating those built-in components, and a keyboard unit **11**.

The system board is mounted with various electronic components such as a CPU (Central Processing Unit), a main memory, a chip set, and various drive control circuits. The optical disc drive is connected to a connector terminal of the system board and performs read and write of information with respect to an optical disc such as a CD, a DVD, and a Blu-ray Disc that is detachable from the optical disc drive. The hard disk drive is connected to a connector terminal of the system board and performs read and write of information with respect to a hard disk included therein. The cooling fan cools the CPU mounted onto the system board or other heat generating devices.

The casing **10** has a length of 260 mm in the width direction (Y direction shown in FIG. **1**) and a length of 180 mm in a depth direction (X direction shown in FIG. **1**), for example. The casing **10** includes a side wall **12** having a predetermined thickness in a thickness direction of the main body portion **3** (Z direction shown in FIG. **1**). A power source terminal **13**, an external display output connector **14**, a plurality of USB (Universal Serial Bus) connectors **15**, a microphone input terminal **16**, a headphone output terminal **17**, and the like are provided to the side wall **12**. For example, the external display output connector **14**, the USB connectors **15**, the microphone input terminal **16**, and the headphone output terminal **17** are provided adjacently to each other, and the power source terminal **13** is provided at an end portion in the X direction of the side wall **12** on a back surface side of the main body portion **3**. Though not shown in the figures, a side wall opposite to the side wall **12** is also provided with a plurality of interfaces.

The frame member **5** is a member for coupling the main body portion **3** and the articulated coupling mechanism **4** to each other and is provided to the side wall **12** and the like such that the frame member **5** surrounds the side wall **12** of the main body portion **3**. The frame member **5** has an outer shape corresponding to that of the display portion **2** in a plane. A thickness of the frame member **5** (thickness in Z direction shown in FIG. **1**) is 5 mm, for example.

The frame member **5** includes a main body portion side coupling portion **5**A that is provided at a lower portion on the back surface side of the main body portion **3**, and a U-shaped frame portion **5**B that is provided along three side walls **12** except the back surface of the main body portion **3**.

The main body portion side coupling portion **5**A has a size corresponding to a size of the width of the main body portion **3** and is provided over the width direction of the main body portion **3** (Y direction shown in FIG. **1**). For example, the main body portion side coupling portion **5**A is coupled to the articulated coupling mechanism **4** with screws or the like. The main body portion side coupling portion **5**A is provided away from a bottom surface of the main body portion **3** by a predetermined distance. It should be noted that the main body